

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

	As a named invent	or, I hereby declar	re that:						
	My residence, mai	iling address and c	itizenship are as stated next to my nar	ne;					
invento	or (if plural names ar	e listed in the sign	sole inventor (if only one name is liste atory page(s) commencing at page 2 h the invention entitled	ed) or a	an orig	ginal, sub	first ject n	and j natter	oint whic
LOST	COST MULTIPLE	PATTERN ANTE	NNA FOR USE WITH MULTIPLE	RECE	IVER	SYS	TEM	<u>s</u>	
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the spe	ecification of which (check one)							
[]	is attached hereto.								
[X]	was filed on Septe	mber 17, 2003 as	United States Application Number 10	/664,4	13.				
[]	was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []].								
[]	and was amended	on [] (if applica	able).						
includi			nd understand the contents of the above adment referred to above.	e-ider	ntified	spec	ificat	ion,	
§1.56, filing d applica	including for continu late of the prior appli	ation-in-part appli	nformation which is material to patent ications, material information which b ional or PCT international filing date	ecame	availa	able	betwe	en th	
United for pate	ntor's certificate, or of States of America, li	of any PCT internatisted below and ha ficate, or of any P	its under 35 U.S.C. 119 or 365 of any ational application which designated a ve also identified below, by checking CT international application having a	t least	one co	ounti	y oth eign a	er tha	n the
		<u>P</u>	rior Foreign Application(s)	N	ority ot imed		Cert Copy ES	Filed	? O
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(Numb	er)	(Country)	(Day/Month/Year filed)	. []	[]	[]

Full name of sole		
or first inventor	Bing Chiang	
Inventor's Signature	Song Olivary	Date 11/6/03
Residence	3662 W hisperwood Circle	
	Melbourne, FL 32901	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of second joi	nt	
inventor, if any	Kenneth M. Gainey	
Inventor's Signature		Date
Residence	441 Thrush Drive	
	Satellite Beach, FL 32937	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of third joint		
inventor, if any	James A. Proctor, Jr.	
Inventor's Signature		Date
Residence	258 Sea View Street	
	Melbourne Beach, FL 32951	
Citizenship	USA	
Mailing Address		
Full name of fourth join	ıt	
inventor, if any	Antoine J. Rouphael	
Inventor's Signature		Date
Residence	3503 Wild Oak Lane	
	Escondido, CA 92027	
Citizenship	USA	-
Mailing Address		

Full name of fifth join	nt	
inventor, if any	Griffin K. Gothard	
Inventor's Signature_		Date
Residence	309 Harwood A venue	
	Satellite Beach, FL 32937	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of sixth joi inventor, if any		
Inventor's Signature_	1900 Fire	Date 6 Nov 03
Residence	4195 Richwood Court Merritt Island, FL 32952	
Citizenship	USA	
Mailing Address	Same As Above	
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I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of which (check one) [] is attached hereto. [X] was filed on September 17, 2003 as United States Application Number 10/664,413. [] was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [OPTION and assigned United States Application No. []]. [] and was amended on [] (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

		Prior Foreign Application(s)	Priority Not Claimed		Certi Copy YES	
OLlead	(Country)	(Day/Month/Year filed)	[]		[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]		[]	[]
(Number)	(Country)	(Day/Month/Year filed)	[]		[]	[]

Full name of sole	Pina Chiana	
or first inventor	Bing Chiang	Date
Inventor's Signature	3662 Whisperwood Circle	
Residence	Melbourne, FL 32901	
O'v'hi	USA	
Mailing Address	Same As Above	
Maning Address	Same As Acces	
Full name of second joi	·	
_	Kenneth M. Gainey	
Inventor's Signature		Date
Residence	441 Thrush Drive	
	Satellite Beach. FL 32937	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of third joint	James A. Proctor, Jr.	
inventor, if any	James A. Floctor, Jr.	Date
Inventor's Signature	258 Sea View Street	
Residence		
	Melbourne Beach. FL 32951	
	USA	
Mailing Address	Same As Above	
Full name of fourth joi	nt	
inventor, if any	Antoine J. Rouphael	
Inventor's Signature		Date
Residence		
Citizenship		
Mailing Address		

Full name of fifth join	ut	
inventor, if any	Griffin K. Gothard	 2 1125/04
Inventor's Signature_	211×20	 Date 1/ 3/01
Residence	309 Harwood Avenue	
	Satellite Beach, FL 32937	
Citizenship	USA	 <u>, , , , , , , , , , , , , , , , , , , </u>
Mailing Address	Same As Above	
Full name of sixth joi		
inventor, if any	Michael J. Lynch	
		 Date
Residence	4195 Richwood Court	
Residence		
	Merritt Island, FL 32952	 ·
Citizenship Mailing Address	Merritt Island, FL 32952 USA	 ·

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[]	and was amended o	on [] (if applica	able).								
includ	I hereby state that I ing the claims, as ame				of the above	e-iden	tified	spec	ificati	on,	
	I acknowledge the of including for continual date of the prior application.	ation-in-part appl	lications,	material informa	tion which be	came	availa	ıble l	betwe	en th	
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(Numb	per)	(Country)		Day/Month/Year	filed)	[]	[]	[]
(Numb	per)	(Country)		Day/Month/Year	filed)	[]	[]	[]
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or first inventor	Bing Chiang	
Inventor's Signature		Date
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	Melbourne, FL 32901	
Citizenship	USA	
	Same As Above	
Full name of second join	int	
inventor, if any	Kenneth M. Gainey	
Inventor's Signature		Date
Residence		
	USA	
<u>-</u>	Same As Above	
Full name of third joint		
inventor, if any	James A. Proctor, Jr.	
• —		
Residence		
	M. II D 1. FI 22051	
	USA	
	Same As Above	
Full name of fourth join	 nt	
inventor, if any	Antoine J. Rouphael	
Inventor's Signature	dute 9. Kggl	Date Nov 4, 2003
Residence	3503 Wild Oak Lane	
	Escondido, CA 92027	
Citizenship	USA	
Mailing Address	Same As Above	

Full name of fifth joint		
•	Griffin K. Gothard	
Inventor's Signature		Date
Residence	309 Harwood Avenue	
	Satellite Beach, FL 32937	
	USA	
	Same As Above	
Full name of sixth joir		
inventor, if any	Michael J. Lynch	
Inventor's Signature_		Date
Residence	4195 Richwood Court	
	Merritt Island, FL 32952	
Citizenship	USA	
Mailing Address	Same As Above	
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BROOK

SMITH &

REYNOLDS, P.C.

PATENTS, TRADEMARKS COPYRIGHTS & LITIGATION

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JOHN L. DUPRÉ
DAVID J. BRODY
MARY LOU WAKIMURA
ALICE O. CARROLL
N. SCOTT PIERCE
HELEN E. WENDLER
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DOREEN M. HOGIE
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ROBERT T. CONWAY
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STEVEN G. DAVIS

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F. JAMES COE
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HELEN LEE
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MARY K. MURRAY
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KEVIN T. SHAUGHNESSY
MARK B. SOLOMON
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JOSEPH C. ZUCCHERO
NOT ADMITTED IN MASS.

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PATENT AGENTS
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ROBERT H. UNDERWOOD

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SUSAN C. KELLY
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VIVIEN J. TANNOCH
MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE ADMINISTRATOR OF PATENT AND TRADEMARK PRACTICE



October 24, 2003

Mr. James A. Proctor, Jr. 258 Sea View Street Melbourne Beach, Florida 32951

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple

Receiver Systems"

InterDigital Reference No.: TAN02-33 HBSR Docket No.: 2479.2171-001

Dear Mr. Proctor:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

- 1. <u>Inventorship</u>: Only persons who have made an <u>inventive</u> contribution <u>to the conception of at least one of the claims</u> in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
- 2. <u>Enablement</u>: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
- 3. <u>Best Mode</u>: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. James A. Proctor, Jr. October 24, 2003 Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please sign and date the Declaration in BLUE ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in BLUE ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return all pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Mark B. Solomon

MBS/ecl(mab)
Enclosures

cc: David J. Thibodeau, Jr., Esq. Ms. Kathleen Renyo

::ODMA\MHODMA\iManage;428688;1

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

(Number)

My residence, mailing address and citizenship are as stated next to my name;

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LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

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(Numb	er)	(Country)	,	(Day/M	onth/Year filed	i)	[]	[]	[]

(Day/Month/Year filed)

(Country)

Full name of sole		
or first inventor	Bing Chiang	
	3662 Whisperwood Circle	
	Melbourne, FL 32901	•
Citizenship	USA	
Mailing Address	Same As Above	_:
Full name of second join	nt	
inventor, if any	Kenneth M. Gainev	
Inventor's Signature		Date
	441 Thrush Drive	
	` 	
	USA	
Mailing Address	Same As Above	
Full name of third joint		
	James A. Proctor, Jr.	
Inventor's Signature		Date
	258 Sea View Street	
	Melbourne Beach, FL 32951	
	USA	
	Same As Above	
Tull of fourth join		
Full name of fourth join	•	
inventor, if any		Date
	3503 Wild Oak Lane	
	Escondido, CA 92027	
•	USA	
-	Same As Above	

Full name of fifth joint			
inventor, if any	Griffin K. Gothard		
Inventor's Signature		Date	
Residence	309 Harwood Avenue		
	Satellite Beach, FL 32937		
Citizenship	USA		
Mailing Address	Same As Above		
Full name of sixth join			
inventor, if any	Michael J. Lynch		
Inventor's Signature		Date	
Residence	4195 Richwood Court		
	Merritt Island, FL 32952		· · · · · · · · · · · · · · · · · · ·
Citizenship	USA		·
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@PFDesktop\::ODMA/MHO	DDMA/IMANAGE;428682;1		

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REYNOLDS, P.C

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Mr. Kenneth M. Gainey October 24, 2003 Page 2

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Mark B. Solomon

MBS/ecl(mab) Enclosures

cc:

David J. Thibodeau, Jr., Esq. Ms. Kathleen Renyo

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(Day/Month/Year filed)

(Country)

(Number)

Full name of sole		
or first inventor	Bing Chiang	<u> </u>
	3662 Whisperwood Circle	
	•	
Citizenship	USA	
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Inventor's Signature		
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	IODMA/IMANAGE;428682;1	

HAMILTON BROOK

SMITH &

REYNOLDS, P.C

PATENTS, TRADEMARKS COPYRIGHTS & LITIGATION

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MICHAEL M. YAMAUCHI

MICHAEL KEWESHAN ADMINISTRATIVE DIRECTOR

BARBARA J. FORGUE ADMINISTRATOR OF PATENT AND TRADEMARK PRACTICE





October 24, 2003

Mr. James A. Proctor, Jr. 258 Sea View Street Melbourne Beach, Florida 32951

Re: Title: "Low Cost Multiple Pattern Antenna for use with Multiple

Receiver Systems"

InterDigital Reference No.: TAN02-33 HBSR Docket No.: 2479.2171-001

Dear Mr. Proctor:

Enclosed is a Declaration for Patent Application for the referenced case.

It is appropriate at this time to confirm that we have designated the correct inventor(s) in the attached Declaration and that the specification and claims meet the enablement and best mode requirements under U.S. patent law.

To assist you in this determination, you should note the following:

- 1. <u>Inventorship</u>: Only persons who have made an <u>inventive</u> contribution <u>to the conception of at least one of the claims</u> in the patent application should be listed as an inventor. Any doubts on this matter should be resolved with me before proceeding further.
- 2. <u>Enablement</u>: This requirement imposes an obligation on the inventor to describe the invention in sufficient detail to enable a person skilled in the art to make and use the invention which is the subject of the patent application without undue experimentation.
- 3. <u>Best Mode</u>: The "best mode" requirement goes further than the "enablement" requirement by obligating the inventor to include in the patent

Mr. James A. Proctor, Jr. October 24, 2003 Page 2

application a description of the best mode contemplated by the inventor of practicing the invention.

An inventor's failure to comply with the "best mode" or "enablement" requirements may invalidate a patent. In addition, intentional failure to correctly name inventors could result in an invalid or unenforceable patent. If you have any questions or concerns, please call me.

Please note that the Declaration requires that you carefully read the patent application in its entirety before signing it. If the application is acceptable, please <u>sign</u> and <u>date</u> the Declaration in <u>BLUE</u> ink. You should also check to be sure that the typed name, address and citizenship on the Declaration is correct. If it is not, you should indicate the correct information in <u>BLUE</u> ink, and initial and date each correction in the margin.

If you have any questions or concerns, or feel any changes need to be made in the Declaration, please call me.

Please return all pages of this document as soon as possible for filing in the U.S. Patent and Trademark Office.

Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Mark B. Solomon

MBS/ecl(mab)
Enclosures

cc: David J. Thibodeau, Jr., Esq. Ms. Kathleen Renyo

::ODMA\MHODMA\iManage;428688;1

Declaration for Patent Application

[] Supplemental (37 C.F.R. §1.67)

As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOST COST MULTIPLE PATTERN ANTENNA FOR USE WITH MULTIPLE RECEIVER SYSTEMS

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[]	is attached hereto.										
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(Day/Month/Year filed)

(Country)

(Number)

Full name of sole		
or first inventor	Bing Chiang	
Inventor's Signature		Date
Residence	3662 Whisperwood Circle	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of second joi		
inventor, if anv	Kenneth M. Gainev	
Inventor's Signature		Date
Residence	441 Thrush Drive	
	Counties Depot El 22027	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of third joint		
inventor, if any	_	
Inventor's Signature		Date
Residence	258 Sea View Street	
	Melbourne Beach, FL 32951	
	USA	<u> </u>
Mailing Address	Same As Above	
Full name of fourth join	nt	
inventor, if any	Antoine J. Rouphael	
		Date
Residence		·
	Escondido, CA 92027	·
	USA	
Mailing Address		

Full name of fifth joint inventor, if any	Griffin K. Gothard	Date
Inventor's Signature		
Residence	309 Harwood Avenue Satellite Beach, FL 32937	
Citizenship	USA	
Mailing Address		
Full name of sixth join	t .	•
inventor, if any	Michael J. Lvnch	Date
Residence	4195 Richwood Court Merritt Island, FL 32952	
Citizenship	USA	
Mailing Address	Same As Above	
@PFDesktop\::ODMA/MH	ODMA/IMANAGE;428682;1	

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Mr. Kenneth M. Gainey October 24, 2003 Page 2

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Very truly yours,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Wash & Colomon Mark B. Solomon

MBS/ecl(mab) Enclosures

cc: David J. Thibodeau, Jr., Esq. Ms. Kathleen Renyo

::ODMA\MHODMA\iManage;428686;1

Declaration for Patent Application

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As a named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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[]	and was amended on [] (if applicable).						
	I hereby state that I have reviewed and understand the coing the claims, as amended by any amendment referred to a						
filing	I acknowledge the duty to disclose information which is including for continuation-in-part applications, material in date of the prior application and the national or PCT internation.	ational filing date o	of the cont	inuati	on-m-)	рап	
Unite	I hereby claim foreign priority benefits under 35 U.S.C. rentor's certificate, or of any PCT international application vd States of America, listed below and have also identified better to inventor's certificate, or of any PCT international appetation on which priority is claimed:	1 1 I - nicina	the hov a	ny for	eion a	ррисан	the
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(Day/Month/Year filed)

(Country)

(Number)

Full name of sole		•
or first inventor	Bing Chiang	
Inventor's Signature		Date
Residence		
-	Melbourne, FL 32901	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of second joi		
	Kenneth M. Gainev	
Inventor's Signature		Date
Residence	441 Thrush Drive	
	Satellite Beach, FL 32937	
Citizenship	USA	
Mailing Address	•	
Full name of third joint		
inventor, if any	James A. Proctor, Jr.	Date
Inventor's Signature		
	258 Sea View Street	
	Melbourne Beach, FL 32951	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of fourth join		
inventor, if any	Antoine J. Rouphael	
Inventor's Signature		Date
Residence	3503 Wild Oak Lane	
•	Escondido, CA 92027	
Citizenship	USA	
Mailing Address	Same As Above	

Full name of fifth joint		
inventor, if any	Griffin K. Gothard	Date
Inventor's Signature		
Residence	309 Harwood Avenue	
	Satellite Beach, FL 32937	
Citizenship	USA	
Mailing Address	Same As Above	
Full name of sixth joint		
inventor, if any	Michael J. Lynch	Date
Inventor's Signature		
Residence	4195 Richwood Court	
	Merritt Island, FL 32952	
Citizenship	USA	
Mailing Address	Same As Above	
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